

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. OBRIEN.002DV2	SERIAL NO. 08/484,594
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT O'Brien, J.S., et al.	MAIL ROOM JUL 31 1995 RECEIVED PATENT & TRADEMARK OFFICE
		FILING DATE June 7, 1995	

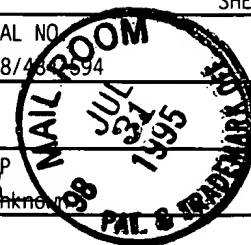
U.S. PATENT DOCUMENTS									
EXAMINER INITIAL	DOCUMENT NUMBER				DATE	NAME			CLASS SUBCLASS FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS									
EXAMINER INITIAL	DOCUMENT NUMBER				DATE	COUNTRY	CLASS SUBCLASS	TRANSLATION (IF APPROPRIATE)	
								YES	NO
	9-3-1-1-2-3-8				06/10/93	PCT			

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)									
RCH ↓	A	Aderka, D. et al., IL-6 inhibits lipopolysaccharide-induced tumor necrosis factor production... Jour. of Immunol. 143(11):3517-3523 (1989).								
	B	Banks, W., et al. Permeability of the blood-brain barrier to peptides: an approach... Peptides 13:1289-1294 (1992).								
	C	Barde, Y.A. Trophic factors and neuronal survival. Neuron 1:1525-1534 (1989).								
	D	Baringe, M. Neurotrophic factors enter the clinic. Science 264:772-774 (1994).								
	E	Bazan, J. Neuropoietic cytokines in the hematopoietic fold. Neuron 7:197-208, (1991).								
	F	Bradová, V. et al. Prosaposin deficiency: further characterization of the sphingolipid activator protein-deficient sibs. Human Genetics 92:143-152 (1993).								

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 7/17/96
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. OBRIEN.002DV2	SERIAL NO. 08/464,594
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT O'Brien, J.S., et al.	
		FILING DATE June 7, 1995	GROUP 1818 Unknown



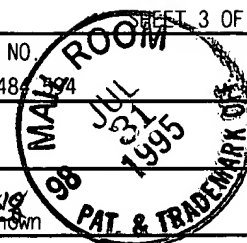
U.S. PATENT DOCUMENTS											
EXAMINER INITIAL	DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS												
EXAMINER INITIAL	DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
	YES	NO										

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
RCH	G	Dewji, N. et al., Nucleotide sequence of cloned cDNA for human sphingolipid activator... Proc. Natl. Acad. Sci. USA. 84:8652-8656 (1987).
	H	Dewji, N. et al., Molecular cloning of the sphingolipid activator protein... Biochem. and Biophys. Res. Commun. 134(2):989-994 (1986).
	I	Fonnum, A rapid radiochemical method for the determination of choline acetyltransferase. Jour. of Neurochemistry 24:407-409 (1975).
	J	Francis, M. et al., Immunological properties of hepatitis B core antigen fusion proteins. Proc. Natl. Acad. Sci. 87:2545-2549 (1990).
	K	Fürst, W. et al., The complete amino-acid sequences of human ganglioside GM2 activator protein and cerebroside sulfate activator protein. Eur. J. Biochem. 192:709-714 (1990).
	L	Gurney, M. et al., Induction of motor neuron sprouting <i>in vivo</i> by ciliary neurotrophic factor and basic fibroblast growth factor. Jour. of Neuroscience 12(8):3241-3247 (1992).

EXAMINER <i>P. J. Hayer</i>	DATE CONSIDERED <i>7/17/96</i>
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. OBRIEN.002DV2	SERIAL NO. 08/484,394
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT O'Brien, J.S., et al.	GROUP 189 Unknown
		FILING DATE June 7, 1995	



U.S. PATENT DOCUMENTS												
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

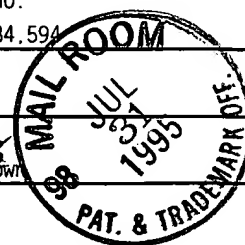
FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
												YES	NO	

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
RCH	M	Hefti, F. et al., Function of neurotrophic factors in the adult and aging brain.... Neurobiology of Aging 10:515-533 (1989).
	N	Henderson, C. et al., Neurotrophic factors in development and plasticity of spinal neurons. Restorative Neurology and Neuroscience 5:15-28 (1993).
	O	Hiraiwa, M. et al., Binding and transport of gangliosides by prosaposin. Proc. Natl. Acad. Sci. USA, 89:11254-11258 (1992).
	P	Hiraiwa, M. et al., Isolation, characterization, and proteolysis of human prosaposin... Arch. Biochem. Biophys. 304(1):110-116 (1993).
	Q	Hofer, M. et al., Brain-derived neurotrophic factor prevents neuronal death in vivo. Nature 331:261-262 (1988).
	R	Ip, N. et al., The neurotrophins and CNTF: specificity of action toward PNS and CNS neurons. J. Physiol., 85:123-130 (1991).

EXAMINER R. Hayer	DATE CONSIDERED 7/17/96
----------------------	----------------------------

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. OBRIEN.002DV2	SERIAL NO. 08/484,594
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT O'Brien, J.S., et al.	
		FILING DATE June 7, 1995	GROUP 188 UNKNOWN



U.S. PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)		

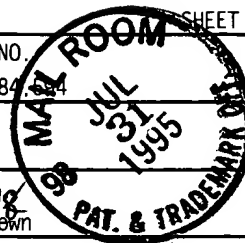
FOREIGN PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
							YES	NO	

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
PCH	S	Kishimoto, Y. et al., Saposins: structure, function, distribution, and molecular genetics. Jour. of Lipid Research, 3:1255-1268 (1992).
	T	Kleinschmidt, T. et al. Complete amino-acid sequence and carbohydrate content of the naturally occurring glucosylceramide activator protein... Biological Chemistry Hoppe-Seyler 368(12):1573-1578 (1987).
	U	Kondoh, K. et al. Distribution of prosaposin-like immunoreactivity in rat brain. Jour. of Comparative Neurology 334:590-602 (1993).
	V	Kondoh, K. et al. Isolation and characterization of prosaposin from human milk. Biochem. and Biophys. Res. Commun. 181(1):286-292 (1991).
	W	Krystal, G. A simple microassay for erythropoietin based on 3H-thymidine incorporation.... Exp. Hematol. 11(7):649-660 (1983).
	X	Kwon, Y. et al., Systemic injections of ciliary neurotrophic factor induce sprouting by adult motor neurons. Neuroreport 5:789-792 (1994).

EXAMINER <i>P. J. Hayes</i>	DATE CONSIDERED 7/17/96
--------------------------------	----------------------------

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. OBRIEN.002DV2	SERIAL NO. 08/484,344
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT O'Brien, J.S., et al.	GROUP 1818 UNKNOWN
		FILING DATE June 7, 1995	



U. S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

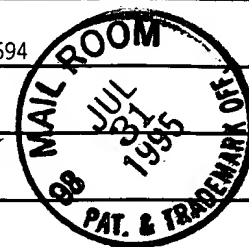
FOREIGN PATENT DOCUMENTS													
EXAMINER INITIAL	DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
											YES	NO	

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)											
RCH	Y	Lamontagne, S. et al. Modulation of human saposin B sphingolipid-binding specificity by alternative splicing. Jour. of Biol. Chem. 269:20528-20532 (1994).										
	Z	Lin, L. et al., Purification, cloning, and expression of ciliary neurotrophic factor (CNTF). Science 246:1023-1025. (1989).										
	AA	Lindsay, R. et al., The neurotrophin family of NGF-related neurotrophic factors. Restorative Neurology and Neuroscience 2:211-220 (1991).										
	BB	Maisonpierre, P. et al., Neurotrophin-3: a neurotrophic factor related to NGF and BDNF. Science, 247:1446-1451 (1990).										
	CC	Morimoto, S. et al., Distribution of saposin proteins (sphingolipid...). Proc. Natl. Acad. Sci. USA, 87:3493-3497 (1990).										
	DD	Morimoto, S. et al., Saposin A: Second cerebroside activator protein. Proc. Natl. Acad. Sci. 86:3389-3393 (1989).										

EXAMINER <i>R. Hayes</i>	DATE CONSIDERED 7/17/96
-----------------------------	----------------------------

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. OBRIEN.002DV2	SERIAL NO. 08/484,594
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT O'Brien, J.S., et al.	
		FILING DATE June 7, 1995	GROUP 1818 Unknown



U.S. PATENT DOCUMENTS												
EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

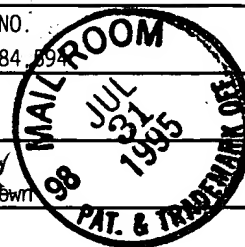
FOREIGN PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
												YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)											
RCH ↓	EE	Morimoto, S. et al., Saposin D: A sphingomyelinase activator. Biochemical and Biophysical Research Communications 156(1):403-410 (1988).										
	FF	O'Brien, J. et al., Identification of prosaposin as a neurotrophic factor. Proc. Natl. Acad. Sci. 91(20):9593-9596 (1994).										
	GG	O'Brien, J. et al., Isolation and characterization of prosaposin...FASEB Jour. 6(4):A969 (1992).										
	HH	O'Brien, J. et al., Saposin proteins: structure, function, and role in human lysosomal... FASEB Jour. 5:301-308 (1991).										
	II	O'Brien, J. et al., Coding of two sphingolipid activator proteins (SAP-1 and SAP-2)... Science 241:1098-1101 (1988).										
	JJ	Priestle, J.P. et al., Crystallographic refinement of interleukin...Proc. Natl. Acad. Sci. 86:9667-9671 (1989).										

EXAMINER <i>R. J. Vayer</i>	DATE CONSIDERED 7/17/96
--------------------------------	----------------------------

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. OBRIEN.002DV2	SERIAL NO. 08/484,894
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT O'Brien, J.S., et al.	GROUP 1810 Unknown
		FILING DATE June 7, 1995	



U.S. PATENT DOCUMENTS												
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
												YES	NO	

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
RCH	KK	Purves, D. et al., Trophic regulation of nerve cell morphology and innervation... Nature, 336:123-128 (1988).
	LL	Rich, K. et al., Nerve growth factor protects adult sensory neurons from cell death... Jour. of Neurocytology 16:261-268 (1987).
	MM	Rorman, E. et al., Structure and evolution of the human prosaposin chromosomal gene. Genomics 12(2):312-318 (1992).
	NN	Sano, A. et al., Protection by prosaposin against ischemia-induced learning disability and neuronal loss. Biochem. and Biophys. Res. Commun. 204(2):994-1000 (1994).
	OO	Sano, A. et al., Saposin-C from bovine spleen; complete amino acid sequence and relation between the structure and its biological activity. Biochim. et Biophys. Acta 1120(1):75-80 (1991).
	PP	Satomi, D., Developmental changes of glutamate decarboxylase and 2',3'-cyclic nucleotide... Zoological Science 9:127-132 (1992).

EXAMINER <i>P. J. Hayes</i>	DATE CONSIDERED <i>7/17/96</i>
--------------------------------	-----------------------------------

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. OBRIEN.002DV2	SERIAL NO. 08/455,094
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT O'Brien, J.S., et al.	MAIL ROOM JUL 31 1995 PAT. & TRADEMARK OFF.
		FILING DATE June 7, 1995	

U.S. PATENT DOCUMENTS												
EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS													
EXAMINER INITIAL	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
	YES	NO											

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
RCH ↓	QQ	Soeda, S. et al., Binding of cerebroside and sulfatides to saposins A-D*. Jour. of Biol. Chem. 268(25):18519-18523 (1993).
	RR	Sprang, S. et al., Cytokine structural taxonomy and mechanisms of receptor engagement. Current Opinion in Structural Biology. 3:815-827 (1993).
↓	SS	Triguero, D. et al., Capillary depletion method for quantification of blood-brain barrier transport of circulating peptides and plasma proteins. J. of Neurochem., 54(6):1882-1888 (1990).

EXAMINER P. J. Hoyer	DATE CONSIDERED 7/17/96
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	